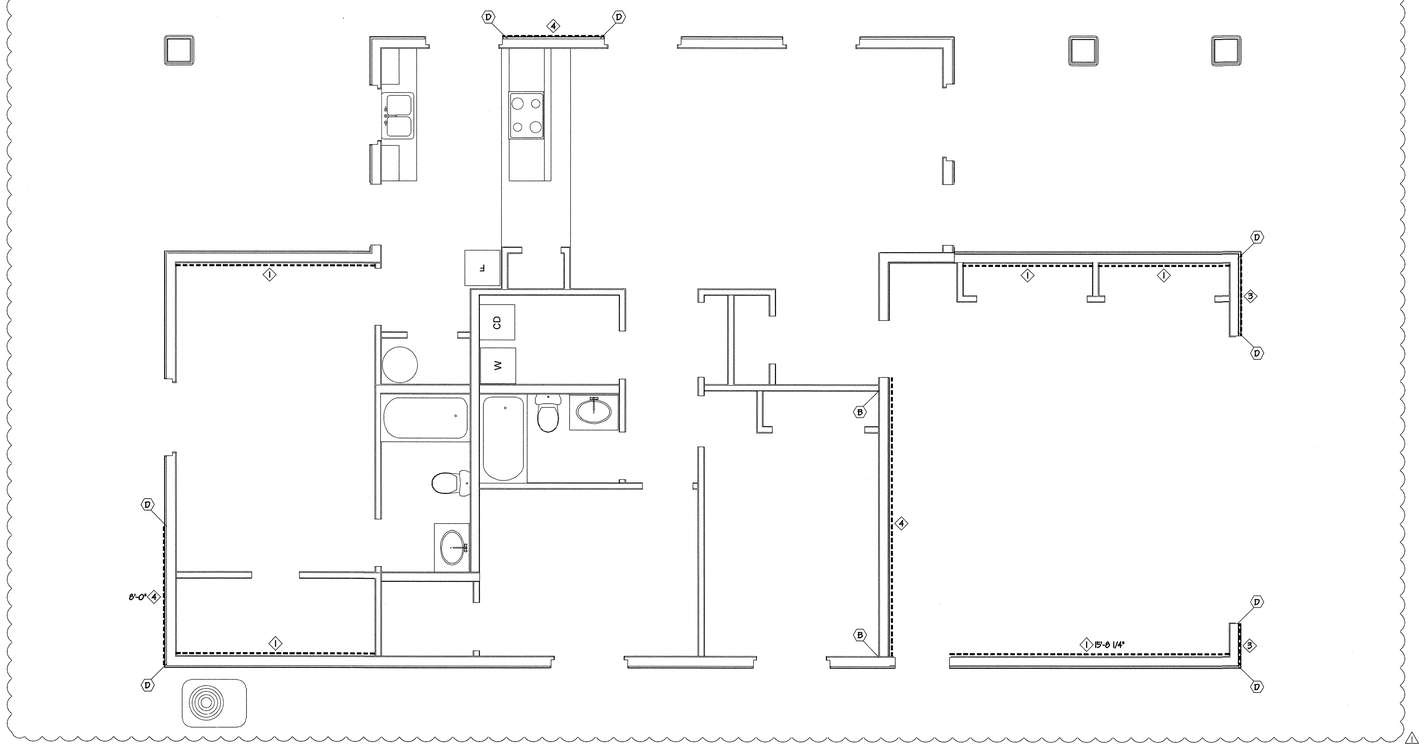


## BRACED/SHEAR WALL SCHEDULE

| | |
|---|---|
| ◇D | 1/2" OR 3/8" RATED SHTG. W/ J13 X 2 3/8" NAILS AT 6" O.C. EDGE AND 12" O.C. FIELD (0 PLF) |
| | NOT A PART OF LATERAL LOAD RESISTING SYSTEM. PROVIDED FOR ADDED STIFFNESS ONLY. |
| ◇1 | 1/2" GYPSUM WALL BOARD WITH 5d NAILS AT 7" O.C. OR 5/8" GYPSUM WALL BOARD WITH 6d NAILS AT 7" O.C. (100 PLF AT 16" O.C. STUD SPACING) (75 PLF AT 24" O.C. STUD SPACING) |
| ◇1 BRACED | METHOD 5 BRACED WALL - 1/2" GYPSUM WALL BOARD WITH 5d NAILS AT 7" O.C. WITH A MINIMUM LENGTH OF 48" FOR DOUBLE SIDED AND 96" FOR SINGLE SIDED. |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 48" O.C. | 10d NAILS AT 6" O.C. |
| INTERIOR | PINS AT 12" O.C. | 10d NAILS AT 6" O.C. |

| | |
|---|---|
| ◇2 | 1/2" GYPSUM WALL BOARD WITH 5d NAILS AT 4" O.C. OR 5/8" GYPSUM WALL BOARD WITH 6d NAILS AT 4" O.C. (125 PLF AT 16" O.C. STUD SPACING) (110 PLF AT 24" O.C. STUD SPACING) |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 48" O.C. | 10d NAILS AT 6" O.C. |
| INTERIOR | PINS AT 12" O.C. | 10d NAILS AT 6" O.C. |

| | |
|---|---|
| ◇3 | 1/2" OR 3/8" RATED SHTG. W/ J13 x 2 3/8" NAILS AT 6" O.C. EDGE AND 12" O.C. FIELD (258 PLF AT 16" O.C. STUD SPACING) (218 PLF AT 24" O.C. STUD SPACING) |
| ◇3 BRACED | METHOD 3 BRACED WALL - 3/8" MINIMUM RATED SHTG. W/ J13 x 2" NAILS AT 6" O.C. EDGE NAILED AND 12" O.C. FIELD NAILED WITH A MINIMUM LENGTH OF 48" EXCEPT AT ALTERNATE BRACED WALL PANELS OR CONTINUOUS WOOD PANEL SHEATHING. |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 32" O.C. | 10d NAILS AT 4" O.C. |
| INTERIOR | PINS AT 6" O.C. OR 1/2" DIA. SCREW ANCHORS AT 32" O.C. | 10d NAILS AT 4" O.C. |

| | |
|---|---|
| ◇4 | 1/2" OR 3/8" RATED SHTG. W/ J13 x 2 3/8" NAILS AT 4" O.C. EDGE AND 12" O.C. FIELD (378 PLF AT 16" O.C. STUD SPACING) (318 PLF AT 24" O.C. STUD SPACING) |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 24" O.C. | 10d NAILS AT 3" O.C. |
| INTERIOR | PINS AT 4" O.C. OR 1/2" DIA. SCREW ANCHORS AT 24" O.C. | 10d NAILS AT 3" O.C. |

| | |
|---|---|
| ◇5 | 1/2" OR 3/8" RATED SHTG. W/ J13 x 2 3/8" NAILS AT 3" O.C. EDGE AND 12" O.C. FIELD (486 PLF AT 16" O.C. STUD SPACING) (407 PLF AT 24" O.C. STUD SPACING) |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 16" O.C. | 10d NAILS AT 2" O.C. |
| INTERIOR | 1/2" DIA. SCREW ANCHORS AT 16" O.C. | 10d NAILS AT 2" O.C. |

| | |
|---|---|
| ◇6 | 1/2" OR 3/8" RATED SHTG. W/ J31 x 2 1/2" NAILS (8d COMMON) AT 3" O.C. EDGE AND 12" O.C. FIELD (630 PLF AT 16" O.C. STUD SPACING) (521 PLF AT 24" O.C. STUD SPACING) |

| LOCATION: | FOUNDATION ANCHORAGE: | SOLE PLATE NAILING: |
|---|---|---|
| EXTERIOR | 1/2" DIA. ANCHOR BOLTS AT 12" O.C. | 10d NAILS AT 2" O.C. |
| INTERIOR | 1/2" DIA. SCREW ANCHORS AT 12" O.C. | 10d NAILS AT 2" O.C. |

NOTES:
- ALL PANELS SHOWN ABOVE AND IN THE BRACED/SHEAR WALL PLANS ARE SHEAR WALLS UNLESS NOTED OTHERWISE WITH "BRACED".
- FOR TYPE ◇1 & ◇2 PANELS, USE SAME SPACING IN FIELD AS SPECIFIED FOR EDGE NAILING. FOR ALL OTHER PANELS, FIELD NAILING TO BE 12" O.C. USE SAME NAIL FOR FIELD NAILING AS SPECIFIED FOR EDGE NAILING FOR ALL PANELS.
- TYPE ◇1 & ◇2 PANELS SHALL BE UNBLOCKED
- NO. 6 X 1 1/4" SCREWS MAY BE SUBSTITUTED FOR NAILS IN GYPSUM WALL BOARD PANELS AS FOLLOWS:
  - ◇1 5d OR 6d AT 7" O.C. = NO. 6 X 1 1/4" AT 5" AT EDGE AND 12" IN FIELD
  - ◇2 5d OR 6d AT 4" O.C. = NO. 6 X 1 1/4" AT 4" AT EDGE AND 12" IN FIELD
- SIMPSON MAS ANCHORS MAY BE USED IN LIEU OF ANCHOR BOLTS AT THE SAME SPACING.
- USE ANCHOR BOLT SPACING LISTED ABOVE UNLESS NOTED OTHERWISE ON BRACED/SHEAR WALL AND/OR FOUNDATION PLAN.
- WHEN BRACED/SHEAR WALLS ARE SHEATHED ON BOTH SIDES, SPACE FOUNDATION ANCHORAGE AT ONE HALF OF SPACING SHOWN ABOVE.
- THE GARAGE/ RESIDENCE COMMON WALL SHALL BE CONSIDERED AN INTERIOR WALL FOR THE PURPOSE OF FOUNDATION ANCHORAGE
- 1/2" DIA. CONCRETE SCREW ANCHORS MAY BE USED IN LIEU OF ANCHOR BOLTS AT THE SAME SPACING.
- BRACED/SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES, EXCEPT THAT INTERIOR SHEAR WALLS MAY HAVE A SINGLE TOP PLATE SO LONG AS IT IS CONTINUOUS FOR THE LENGTH OF THE WALL. WHEN DOUBLE TOP PLATES AT BRACED/SHEAR WALLS ARE CUT, ADD A MSTC52 STRAP ON EACH SIDE OF WALL WITH (48) 10d SINKERS.
- STUDS TO BE AT 16" O.C. FOR SHEAR WALL TYPES ◇3 ◇4 ◇5 ◇6 U.N.O.
- G.S. = CONTINUOUS SHEATHING
- FOUNDATION ANCHORAGE TO BE PROVIDED AT SPACING SHOWN IN SCHEDULE. FIRST ANCHOR TO BE THE LESSER OF 12 INCHES OR 1/2 SPECIFIED SPACING FROM EACH END OF BRACED/SHEAR WALL.

## HOLDOWN SCHEDULE

| MARK | POST-SET OR CAST-IN-PLACE | |
|---|---|---|
| ◇A | LTT20B W/ 1/2" DIA. SIMPSON TITEN HD W/ 3 1/4" MIN. EMBED (1855 LBS.) - INT. ONLY | NOT APPLICABLE |
| ◇B | HTT22 OR HTT5 W/ 1/2" DIA. SIMPSON TITEN HD W/ 4" MIN. EMBED (3580 LBS.) - INT. ONLY | NOT APPLICABLE |
| ◇C | HDU8-SDS2.5 W/ 3/4" DIA. SIMPSON TITEN HD W/ 5 1/2" MIN. EMBED (5665 LBS.) - INT. ONLY | NOT APPLICABLE |
| ◇D | NOT APPLICABLE | STHD8 (2210 LBS. AT 1 1/2" OR 2385 LBS. AT 8" END DISTANCE |
| ◇E | NOT APPLICABLE | STHD10 (3730 LBS.) |
| ◇F | NOT APPLICABLE | STHD14 (5025 LBS.) |
| ◇G | CS16 STRAP CLEAR SPAN + 28" W/ (28) 8d NAILS (1705 LBS.) | |
| ◇H | CMSTC16 STRAP CLEAR SPAN + 50" W/ (58) 10d NAILS (3806 LBS.) OR (2) CS16 STRAPS CLEAR SPAN + 28" W/ (26) 8d NAILS EACH STRAP (3410 LBS.) | |
| ◇I | MASA W/ MINIMUM (1) LEG ATTACHED TO STUD (710 LBS.) | |

1. MIT26B MAY BE USED I.L.O. HTT22 OR HTT5
2. TYPE A, B, D & E HOLDOWNS SHALL BE ATTACHED TO (2) 2x POST MIN. AND TYPE C & F HOLDOWNS SHALL BE ATTACHED TO (3) 2x POST MIN.

◇4 AT STEEL STUDS
1/2" OR 3/8" RATED SHEATHING OR 27 MIL. STEEL SHEET WITH No.8 SCREWS AT 4" O.C. EDGE AND 12" O.C. FIELD (318 PLF AT 24" O.C.)

◇B AT STEEL STUDS
SWITH W/ 1/2" DIA. SIMPSON TITEN HD W/ 4" MIN. EMBED (3580 LBS.) - INTERIOR ONLY

CITY OF PHOENIX
Development Services Department
BY: _____
(CRAIG COOPER)
OCT 23 2009
This set of plans and specifications must be kept on the construction site. Such review shall not prevent the Building Official from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law or ordinance.

## BRACED / SHEAR WALL PLAN

ALL ELEVATIONS

1/4" = 1'-0"

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HABITAT FOR HUMANITY
CENTERAL ARIZONA

TITLE:
BRACED / SHEAR WALL PLAN
ALL ELEVATIONS

Registered Professional Engineer
34052
BRIAN M. JUEDES
State Planning Architect
ARIZONA, U.S.A.
EXPIRES 09/30/11

DRAWN BY: C. WHITMORE DATE: 09/17/2009
CHECKED BY: B. JUEDES DATE: 09/17/2009
JOB NUMBER: FE09-1856-07

| | |
|---|---|
| 1 | CITY COMMENTS 10/21/09 B.JUEDES |
| 2 | |
| 3 | |

SERIES
LEGACY HOME
SUBDIVISON
20 N. 27TH DR.
PHOENIX, AZ

PLAN NUMBER

SHEET NUMBER
S3.1

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Joshua Oct 22, 2009 - 6:22am Z:\Felten Drawings\BOSTON HOMES\Habitat Legacy Home\B Revision 1 (10-19-09)\Structural Plans.dwg